PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 320 (Piney Branch Ave) and Ray Drive / Takoma Park Middle School Driveway in Montgomery County. A left turn phase shall be added for the southbound approach of MD 320 utilizing video detection. MD 320 (Piney Branch Ave) is assumed to run in a north-south direction.

II. INTERSECTION OPERATION

- 1. The intersection is to operate in a NEMA five-phase, semi-actuated mode, with the MD 320 (Piney Branch Ave) approaches continuing to run concurrently. An Exclusive/Permissive left turn phase shall be added to the southbound approach of MD 320 (Piney Branch Ave). The pedestrian phase with pushbutton actuation across the south leg of MD 320 (Piney Branch Ave) shall remain in operation. The Ray Drive / Takoma Park Middle School Driveway approaches shall also continue to run concurrent.
- 2. Video interface equipment shall be added to an existing full-traffic-actuated, eight-phase controller housed in a NEMA size "6" base-mounted cabinet.

III. SPECIAL NOTES

- 1. The Contractor shall be responsible for terminating all signal cables. to the appropriate terminals and shall properly label each cable.
- 2. All controller cabinet wiring will be performed by the S.H.A. Signal Shop Contact Mr. Ed Rodenhizer at (410) 787-7650 seventy-two hours in advance of intended work.
- 3. All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

EQUIPMENT LIST

Α.	EQUIPMENT TO BE SUPPLIED BY S.H.A.	
ITEM		

NO.	DESCRIPTION	QUANTITY			
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	10.5	SF		
	R10-12 "LEFT TURN YIELD ON GREEN (BALL)" sign.	1	ΕA		

(36" x 42") mast arm mounted.

EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUAN	ITITY	
1001	Maintenance of traffic per assignment.	1	EA	
8001	Pre-manufactured camera to controller (250' length) cable.	1	EA	
8011	Furnish and install 12" vehicular traffic signal head section.	10	EA	
8048	Remove and dispose of existing material and equipment per assignment.	1	EA	
8049	Furnish and install video detector camera.	1	EA	
8050	Furnish and install video detection interface equipment.	1	ΕA	
8077	Install overhead sign.	10.5	S.F.	
8087	Furnish and install electrical cable — 7 conductor (No. 14 AWG).	125	L.F.	
8093	Furnish and install 2" schedule 80 rigid polyvinyl chloride – trenched	75	L.F.	

EQUIPMENT TO BE REMOVED

All removed signal materials are to become property of the contractor.

PHASE CHART

The contact persons for District #3 (Montgomery County) are as follows:

Mr. Lee Starkloff Assistant District Engineer – Traffic Phone: (301 513-7318

Mr. Raleigh Medley Assistant District Engineer - Maintenance Phone: (301) 513-7304

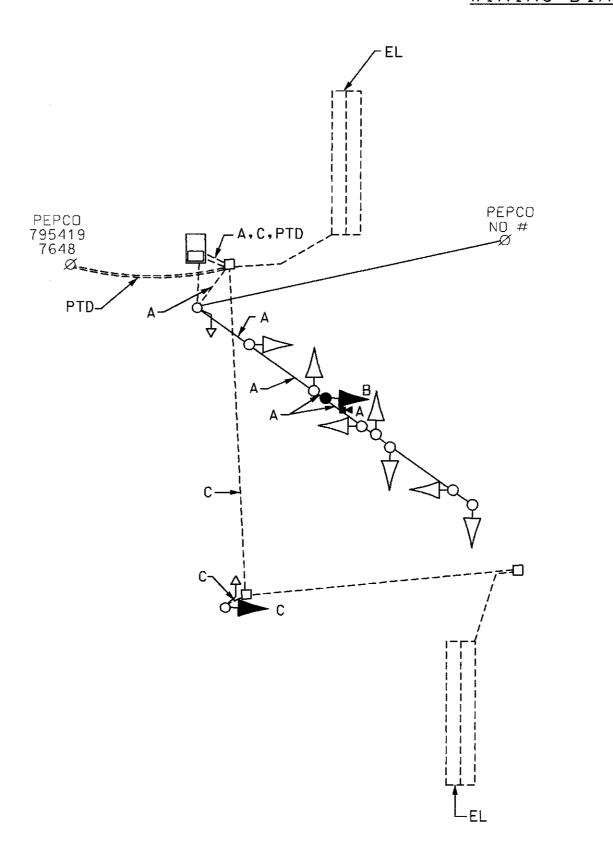
Mr. Augie Rebish District Utility Engineer Phone: (301) 513-7350

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division Phone: (410) 787-7630

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PHASE 4 & 8	R	R	R	R	R	G	G	G	G	DW	DW	+ +
4 & 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	
PHASE 4 & 8 ALT	R	R	R	R	R	G	G	G	G	WK	WK	†
PED CLEARANCE	R	R	R	R	R	G	G	G	G	FL/DW	FL/DW	
4 & 8 ALT CHANGE	R	R	R	R	R	Y	Y	Y	Y	DW	DW	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	+ + + + + + + + + + + + + + + + + + +

WIRING DIAGRAM



WIRING KEY

- A PRE-MANUFACTURED CAMERA TO CONTROLLER (250') CABLE
- B USE EXISTING 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)
- C 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G)
- EL-LOOP WIRE (NO. 14 A.W.G.)
 EXISTING
- PTD-PROPOSED TELEPHONE DROP

STREET TRAFFIC STUDIES, LTD.

400 Crain Hwy., N.W. Glen Burnie, MD 21061

Ph (410) 590-5500 Fax (410) 590-6637

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

MD 320 (PINEY BRANCH AVE) AND RAY DR/TAKOMA PARK MIDDLE SCHOOL

SHEET NO.

T.I.M.S. NO. F143

ROB CICCHINI F.A.P. NO. DRAWN BY: 2374 A CHECKED BY: R ZACHERL MU619A5G/135G S.H.A. NO. NONE Montgomery SCALE: COUNTY: 7-22-02 15032000.56 LOG MILE: